

Our Ref: EPS-20 (JP 2000-162552)
EPSON Ref: F005963

TABLE 1

Sample No.	Alloy Composition	Average Crystal Grain Size (nm)
Comp.Ex.1	(Nd _{0.8} Pr _{0.2}) _{8.9} Fe _{bal} Co _{7.0} B _{5.8}	54
This Invention 2	(Nd _{0.8} Pr _{0.2}) _{8.9} Fe _{bal} Co _{8.0} B _{5.7} Ti _{0.5} Cr _{0.7} Zr _{1.0}	33
This Invention 3	(Nd _{0.7} Pr _{0.3}) _{9.1} Fe _{bal} Co _{5.0} B _{5.7} Nb _{1.0} Mo _{0.2} W _{0.3}	29
This Invention 4	(Nd _{0.5} Pr _{0.5}) _{9.0} Fe _{bal} Co _{5.0} B _{5.8} Dy _{0.8} Hf _{0.5} Mn _{0.7}	31
This Invention 5	(Nd _{0.4} Pr _{0.6}) _{8.5} Fe _{bal} Co _{8.0} B _{5.5} Nb _{0.5} Zr _{0.5} Cr _{0.3}	27
Comp.Ex.6	(Nd _{0.7} Pr _{0.3}) _{8.5} Fe _{bal} Co _{5.0} B _{5.8} Dy _{1.8} W _{1.0} Hf _{0.7}	56

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TABLE 2

Sample No.	ρ (Mg/m ³)	Br (T)	H _{CJ} (kA/m)	(BH) _{max} (kJ/m ³)	(BH) _{max} / ρ^2 ($\times 10^{-9}$ J·m ³ /g ²)	Br/ ρ ($\times 10^{-6}$ T·m ³ /g)	Example 1	
							Irrespective Flux Loss (%)	
Comp.Ex.1	6.41	0.79	385	77.0	1.87	0.123	-10.3	
This Invention 2	6.42	0.88	585	113	2.74	0.137	-2.9	
This Invention 3	6.39	0.90	592	118	2.89	0.141	-2.7	
This Invention 4	6.40	0.89	603	116	2.83	0.139	-2.5	
This Invention 5	6.42	0.91	578	120	2.91	0.142	-3.1	
Comp.Ex.6	6.42	0.78	472	82	1.99	0.121	-6.5	

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TABLE 3

Sample No.	ρ (Mg/m ³)	Br (T)	H _{ej} (kA/m)	(BH) _{max} (kJ/m ³)	(BH) _{max} / ρ^2 ($\times 10^{-9}$ J·m ³ /g ²)	Br/ ρ ($\times 10^{-6}$ T·m ³ /g)	Example 2	
							Irrespective Flux Loss (%)	
Comp. Ex. 1	6.25	0.77	378	74	1.89	0.123	-10.2	
This Invention 2	6.26	0.86	588	107	273	0.137	-2.8	
This Invention 3	6.24	0.88	590	111	2.85	0.141	-2.8	
This Invention 4	6.26	0.87	605	109	2.78	0.139	-2.4	
This Invention 5	6.25	0.89	575	115	2.94	0.142	-3.1	
Comp. Ex. 6	6.25	0.76	470	78	2.00	0.122	-6.6	